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SONY ERICSSON MOBILE COMMUNICATIONS AB PS04 0064WO1 P29476WO

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CLAIMS

- 1. Cooling system for a mobile terminal for wireless communication comprising a rotating fan (1) adapted to reduce the heat generated by the mobile terminal and at least one weight (3) which is coupled to said rotating fan (1) so that said weight is activated by a centrifugal force when the rotational speed of the fan (1) exceeds a predefined level in order to cause a vibration of the fan (1) by creating an unbalance of the rotation of the fan (1).
- 2. System according to claim 1,
- 15 characterised in

that the fan (1) consists of blades (2).

3. System according claim 2,

characterised in

- 20 that the fan (1) consists of four blades (2).
 - 4. System according to claim 2 or 3,

characterised in

that each weight (3) is attached to one blade (2).

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5. System according to claim 4,

characterised in

that at least one blade (2) has no attached weight (3).

30 6. System according to any of claims 2 to 4,

characterised in

that the weight (3) is held to the centre (4) of the fan (1) by a spring (5).

7. System according to claim 6,

35 characterised in

that the weight (3) is movable along the blade (2).

8. System according to claim 7,

characterised in

that the weight (3) is guided along the blade (2) by a bar (8, 9, 10, 11).

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9. System according to claim 8,

characterised in

that the weight (3) encompasses the blade (2).

10. System according to claim 1,

characterised in

that the weight (3) is coupled to the fan (1) by a clutch (12).

11. System according to claim 10,

characterised in

that the weights (3) and the fan (1) have a common rotational axis (7).

12. System according to claim 11,

15 characterised in

that the clutch (12) is a centrifugal clutch.

13. Mobile terminal for wireless communication having a cooling system according to any of the preceding claims.

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